

# 14GT8

## Twin Diode—High-Mu Triode

### 9-PIN MINIATURE TYPE

#### GENERAL DATA

##### Electrical:

Heater, for Unipotential Cathodes:

Voltage (AC or DC) . . . . .  $14 \pm 10\%$  volts

Current at 14 volts . . . . . 0.15 amp

Direct Interelectrode Capacitances:▲

##### Triode Unit:

Grid to plate . . . . . 1.8  $\mu\text{f}$

Grid to cathode and heater . . . . . 1.6  $\mu\text{f}$

Plate to cathode and heater . . . . . 0.24  $\mu\text{f}$

##### Diode Units:

Diode-No.1 plate to triode grid . . . . 0.09 max.  $\mu\text{f}$

Diode-No.2 plate to triode grid . . . . 0.07 max.  $\mu\text{f}$

Either diode cathode to all other tube electrodes . . . . . 6.5  $\mu\text{f}$

Diode plate to cathode and heater (Each unit) . . . . . 2.4  $\mu\text{f}$

##### Characteristics, Class A<sub>1</sub> Amplifier (Triode Unit):

Plate Voltage . . . . . 250 volts

Grid Voltage . . . . . -3 volts

Amplification Factor . . . . . 72

Plate Resistance (Approx.) . . . . . 72000 ohms

Transconductance . . . . . 1000  $\mu\text{mhos}$

Plate Current . . . . . 0.7 ma

##### Mechanical:

Operating Position . . . . . Any

Maximum Overall Length . . . . . 2-3/16"

Maximum Seated Length . . . . . 1-15/16"

Length, Base Seat to Bulb Top (Excluding tip) . . 1-9/16"  $\pm$  3/32"

Diameter . . . . . 0.750" to 0.875"

Dimensional Outline . . . . . See *General Section*

Bulb . . . . . T6-1/2

Base . . . . . Small-Button Noval 9-Pin (JEDEC No.E9-1)

Basing Designation for BOTTOM VIEW . . . . . 9KR

Pin 1—Diode-No.2

Cathode

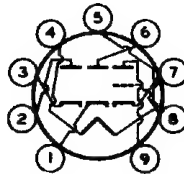
Pin 2—Diode-No.1

Plate

Pin 3—Diode-No.1

Cathode

Pin 4—Heater



Pin 5—Heater

Pin 6—Diode-No.2

Plate

Pin 7—Triode Cathode

Pin 8—Triode Grid

Pin 9—Triode Plate

#### TRIODE UNIT — AMPLIFIER — Class A<sub>1</sub>

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE . . . . . 330 max. volts



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## GRID VOLTAGE:

Positive-bias value. . . . . 0 max. volts

PLATE DISSIPATION. . . . . 1.1 max. watts

## PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. . 200 max. volts

Heater positive with respect to cathode. . 200<sup>•</sup> max. volts

## DIODE UNITS — Two

*Values are for Each Unit*

### Maximum Ratings, Design-Maximum Values:

PLATE CURRENT. . . . . 5 max. ma

## PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. . 200 max. volts

Heater positive with respect to cathode. . 200<sup>•</sup> max. volts

### Characteristics, Instantaneous Test Condition:

Plate Current for plate volts = 5. . . . . 18 ma

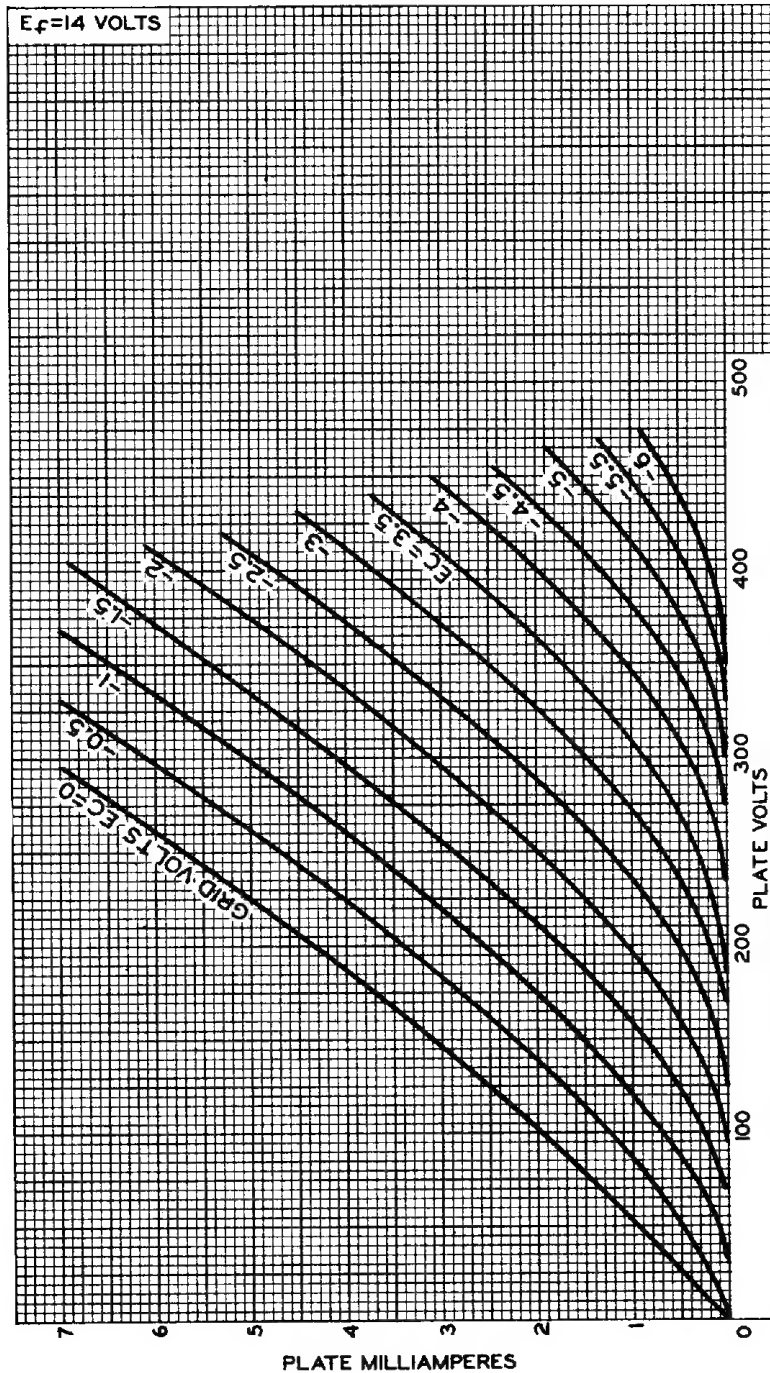
▲ Without external shield.

• The dc component must not exceed 100 volts.



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## AVERAGE PLATE CHARACTERISTICS Triode Unit



92CM-10835

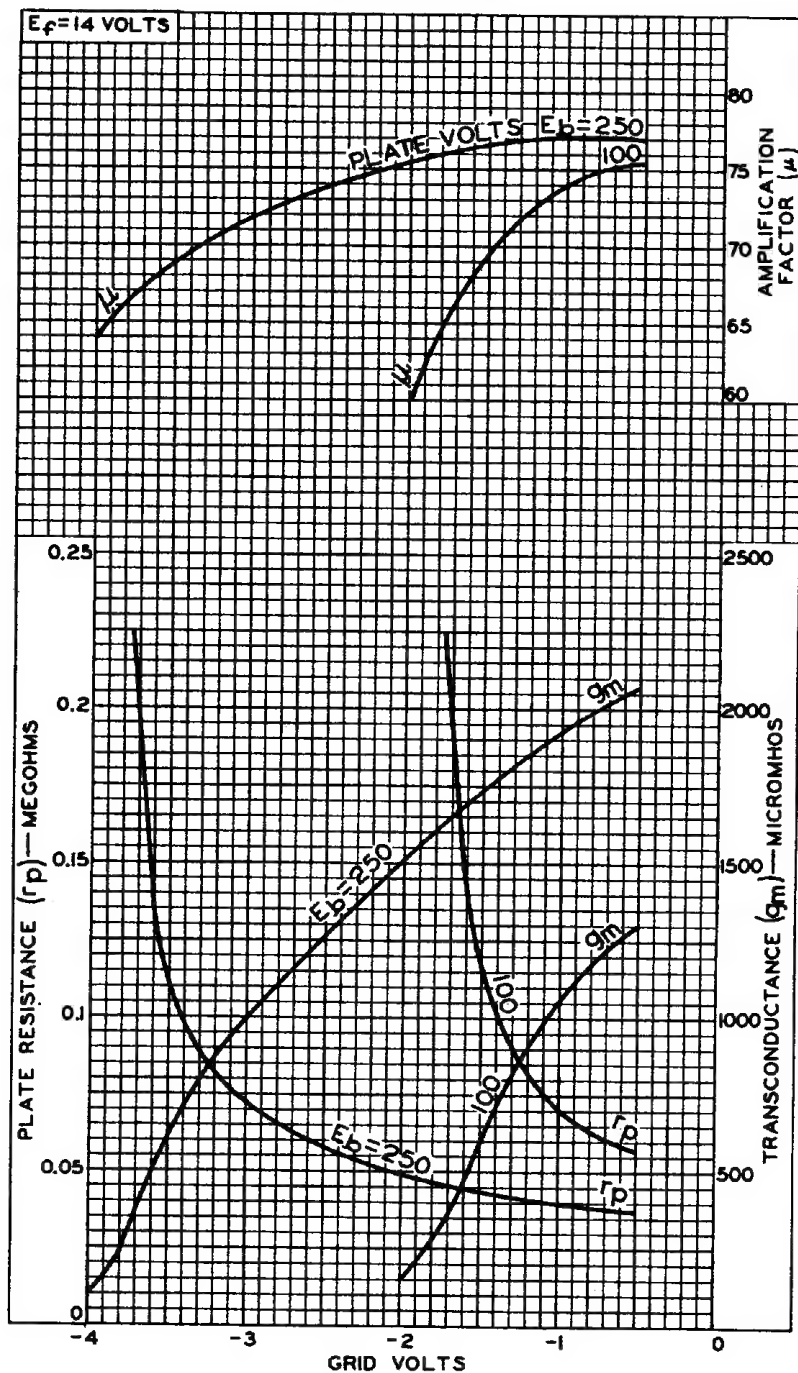


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## AVERAGE CHARACTERISTICS Triode Unit



92CM-10838

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